

Patent Claims

1. Land, air or sea vehicle having a transport compartment for accommodating cargo and/or seats mounted to the vehicle for conveying personnel, whereby at least one row of seats disposed next to one another in the longitudinal axis of the vehicle and oriented transverse to the direction of movement of the vehicle is provided in a central row of the transport compartment, characterized in that mesh frameworks (40) composed of textile straps are suspended, within the pattern of the seats (25) that are to be installed, between roof and floor surfaces (12, 13) of the transport compartment (10) and the oppositely disposed side walls (11) that extend in the direction of movement of the vehicle, and each seat (25) is individually secured to an associated mesh framework (40) which is secured, under tension, to support elements of the vehicle, wherein each mesh framework (40) is comprised of two transverse straps (15) and two vertical straps (18), wherein the transverse straps are spaced from one another by the width of the seat and are suspended between the side walls (11) in the vicinity of the roof, wherein the vertical straps are spaced from one another by the width of the seat and are suspended

between the roof surface (12) and the floor surface (13), and wherein the transverse straps (15) and the vertical straps (18) are interconnected at their points of intersection (19).

- 5 2. Land, air or sea vehicle according to claim 1, characterized in that with a double-rowed back-to-back arrangement of two seats (25), the mesh framework (20) for accommodating the two seats (25) includes a doubled arrangement of vertical straps (18) in such a way that each of the two seats (25) has associated with it its own vertical strap (18) that is connected to the unitary transverse straps.

- 10 3. Land, air or sea vehicle according to claim 1 or 2 , characterized in that a strap-tensioning mechanism (17) is disposed in each of the transverse straps (15) and the vertical straps (18).

- 15 4. Land, air or sea vehicle according to claim 1 or 2, characterized in that a central strap-tensioning mechanism (17) is disposed in the mesh framework (40) composed of transverse straps (15) and vertical straps (18).

5. Land, air or sea vehicle according to one of the claims 1 to 4, characterized in that vertical straps (18) and transverse straps (15) are sewn together at their points of intersection (19).
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6. Land, air or sea vehicle according to one of the claims 1 to 4, characterized in that to connect the vertical straps (18) and the transverse straps (15) at their points of intersection (19), eyelets (20) are disposed on one of the straps (15, 18) to which the respective other straps (15, 18) are connected via detachable connection means.
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7. Land, air or sea vehicle having a transport compartment for accommodating cargo and/or seats mounted to the vehicle and serving for conveying personnel according to one of the claims 1 to 6, characterized in that a support structure (21) of textile straps (22, 23) and held in place by the vertical straps (18) is disposed between two vertical straps (18) suspended at a seat width apart.
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8. Land, air or sea vehicle according to claim 1, characterized in that the support structure (21) is comprised of two intersecting support straps (22), which are suspended in the plane of the

vertical straps (18), and two support straps (23) that extend linearly between the vertical straps (18), whereby the ends of the support straps (22, 23) are respectively connected to the vertical straps (18).

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9. Land, air or sea vehicle according to claim 7 or 8, characterized in that a strap-tensioning mechanism (24) is disposed in the support structure (21) formed of the support straps (22, 23).

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10. Land, air or sea vehicle according to one of the claims 1 to 9, characterized in that with two mesh frameworks (40) disposed next to one another in the longitudinal axis of the vehicle, the adjacent mesh frameworks (40) are respectively connected to a common transverse strap (15) and/or vertical strap (18).

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11. Land, air or sea vehicle according to one of the claims 1 to 10 with a seat that is to be secured in the vehicle via holding straps disposed above and below the seat, characterized in that the holding straps (29) belonging to the seat (25) can be anchored partially on the mesh framework (40) and partially on anchoring points attached to the vehicle.

12. Land, air or sea vehicle according to one of the claims 1 to 11
with a seat that is to be secured to the vertical straps (18) of the
mesh framework (40) and having a safety harness for securing
an occupant sitting on the seat, characterized in that for the
support of a seat pan (50) embodied as a component that is
resistant to pressure, support straps that respectively laterally
border the seat pan (50) are secured to the vertical straps (18)
and that when the seat pan (50) is in the sitting position via a
portion (52) thereof extend from a lower securement location
10 (64) with the vertical straps (18) along the side edges of the seat
pan (50) to the front corners (54) thereof and from here,
following a course that is inclined relative to the vertical axis, are
guided back to the vertical straps (18) and are secured thereto
at an upper securement location (65), and in that the seat pan
15 (50), in the strap structure that holds it and that is composed of
the vertical straps (18) and the lateral support straps (51), can
be folded or pivoted between its sitting position and a storage
position by raising the rear end (55) of the seat pan (50)
associated with the vertical straps (18).

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13. Land, air or sea vehicle according to claim 12, characterized in that the rear end of the seat pan extends between the vertical straps and is guided between them during its folding movement.
- 5 14. Land, air or sea vehicle according to claim 12 or 13, characterized in that a control portion (56) is disposed on the rear end (55) of the seat pan (50) and is guided over a guide member (57) located in the roof portion (12) of the vehicle and has a handle or grip loop (59) supported on the roof portion of the vehicle.
- 10 15. Land, air or sea vehicle according to one of the claims 12 to 14, characterized in that the seat pan (50) is comprised of a solid panel.
- 15 16. Land, air or sea vehicle according to one of the claims 12 to 14, characterized in that the seat pan (50) is comprised of a tubular frame having a textile seating surface supported thereby.
- 20 17. Land, air or sea vehicle according to one of the claims 12 to 16, characterized in that the lateral support straps (51) are fixed to the seat pan (50) at the front corners (54) thereof.

18. Land, air or sea vehicle according to one of the claims 12 to 17, characterized in that the lateral support straps (51) are embodied as one-piece belt straps.

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19. Land, air or sea vehicle according to one of the claims 12 to 17, characterized in that the lateral support straps (51) are comprised of two individual strap portions, each of which is connected with the vertical straps (18) and the seat pan (50).

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20. Land, air or sea vehicle according to one of the claims 12 to 19, characterized in that a textile head support (60) is suspended as a head impact or collision protection in the plane of the back support (66) between the vertical support straps (18) and continues in lateral support surfaces (61) disposed above the lateral support straps (51), wherein the forward free end of the lateral support surface is connected to a holding strap (62) that extends from an upper securement point (67) on the roof portion of the vehicle to the lower securement point of the vertical strap (18) at the floor (13) of the vehicle at an angle to the vertical axis of the vehicle.

21. Land, air or sea vehicle according to claim 20, characterized in that the head support (60) is made of a partially transparent textile material.
- 5 22. Land, air or sea vehicle according to claim 20 or 21, characterized in that the holding strap is provided with an actuatable, detachable tensioning device.
- 10 23. Land, air or sea vehicle according to one of the claims 12 - 22, characterized in that an additional textile collision matting (63) is secured to the vertical straps (18) between the back support (66) and the region of the head support (60) suspended between the vertical straps.
- 15 24. Land, air or sea vehicle according to claim 23, characterized in that the collision matting (63) is unitarily formed with that portion of the textile head support (60) disposed between the vertical straps (18).

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